

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

Reserve
a5624
.A1V44
1997

U.S. Department of Agriculture
National Agricultural Library

JUN 27 2019

Received
Acquisitions and Metadata Branch



Vegetative Barriers ^{1/}

Conservation Practice Job Sheet

(Interim)

Natural Resources Conservation Service (NRCS)

April 1997

Landowner _____



Definition

Vegetative barriers are narrow, permanent strips of stiff stemmed, erect, tall, dense perennial vegetation established in parallel rows and perpendicular to the dominant slope of the field.

Purpose

Vegetative barriers provide erosion control on cropland and offer an alternative to terraces where the soil might be degraded by terracing.

In addition, the following benefits are provided:

- Facilitate benching of sloping topography.
- Retard and reduce surface runoff by promoting detention and infiltration.
- Disperse concentrated flow and reduce ephemeral gully development.
- Divert runoff to a stable outlet.
- Entrap sediment-borne and soluble contaminants and facilitate their transformations.
- Provide wildlife habitat.

^{1/} Applicable where the states have developed an interim practice standard.

Where used

- On cropland fields where water or wind erosion is a problem or where water needs to be conserved.
- Where a suitable outlet can be provided.
- Where adapted perennial vegetation can be expected to become established before the field is damaged from erosion.
- On slopes less than 10 percent.

Conservation management system

Vegetative barriers are normally established as part of a conservation management system to address the soil, water, air, plant, and animal needs and the owner's objectives. For this practice to be fully effective, it is important to plan the conservation crop rotation, nutrient and pest management, crop residue management, and other cropland practices.

Wildlife

Vegetative barriers provide excellent opportunities to improve wildlife habitat for some species by creating travel lanes that connect important habitat areas or in-field escape cover. For wildlife objectives, select native species or other adapted species that provide wildlife food and cover. Practices, such as wildlife upland habitat management, provide guidance for applying vegetative barriers that meet wildlife objectives.

Specifications

Site-specific requirements are listed on the specifications sheet. Additional provisions are entered on the job sketch sheet. The following general specifications apply to this practice:

- Minimum width of barrier strip is 12 inches.
- Maximum vertical and horizontal spacing of barriers is determined using the terrace spacing equations.
- Barriers are aligned as near contour as practicable with minor adjustments to accommodate farming operations.

Operation and maintenance

Vegetative barriers must be inspected periodically to assure no voids develop in the protective strips of vegetation. Shape and replant washouts and rills as necessary to maintain plant density. Control spreading of barrier plants into cropped areas. Control weeds and fertilize to maintain plant vigor. Control grazing and equipment traffic as necessary to protect barriers.

Vegetative Barriers – Specifications Sheet

Landowner_____ Field number_____

Purpose (check all that apply)	
<input type="checkbox"/> Reduce sheet and rill erosion	<input type="checkbox"/> Reduce runoff
<input type="checkbox"/> Reduce pollution from runoff	<input type="checkbox"/> Provide wildlife habitat
<input type="checkbox"/> Reduce ephemeral gullies	<input type="checkbox"/> Other (specify)

Location and Layout	Strip 1	Strip 2	Strip 3	Strip 4
Barrier width (in)				
Rows per barrier				
Barrier length (ft)				
Barrier area (acres)				
Field slope (%)				

Plant Materials Information				
Species/cultivar by row number	Seeding rate (lb/acre)	Seeding date	Recommend lime (tons/acre)	Recommend fertilizer N-P ₂ O ₅ - K ₂ O (lb/acre)
Strip #1				
1				
2				
3				
Strip #2				
1				
2				
3				
Strip #3				
1				
2				
3				
Strip #4				
1				
2				
3				

Site Preparation
Prepare firm seedbed. Apply lime and fertilizer according to recommendations.
Planting Method(s)
1. Drill seed _____ inches deep uniformly down the row. Establish stand of vegetation according to recommended seeding rate. If necessary, mulch newly seeded area with _____ tons per acre of mulch material. May seed small grain as a companion crop at the rate of _____ pounds per acre, but clip or harvest before it heads out.
2. If seedlings are used, adjust column labels accordingly in above table.
Operation and Maintenance
Vegetative barriers must be inspected periodically to assure no voids develop in the protective strips of vegetation. Shape and replant wash-outs and rills as necessary to maintain plant density. Control spreading of barrier plants into cropped areas. Control weeds and fertilize to maintain plant vigor. Control grazing and equipment traffic as necessary to protect barriers.

Vegetative Barriers – Job Sketch

Field sketch showing field boundaries, barrier widths, runoff direction arrow, and field layout. Other relevant information, such as adjacent field conditions including structures, crop types, and complementary practices, may also be included.

Scale 1"=_____ ft. (NA indicates sketch not to scale: grid size=1/2" by 1/2")

Additional Specifications and Notes: